



PTO/SB/38A (08-03)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/605,348
Filing Date	September 24, 2003
First Named Inventor	Williams et al.
Art Unit	3679
Examiner Name	James M. Hewitt
Attorney Docket Number	22188/06726

Sheet 1 of 7

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JH		US- 388,522	08/1888	Beauchemin	
		US- 1,323,705	12/1919	Lynch	
		US- 1,874,284	08/1932	Goodall et al.	
		US- 2,150,042	03/1939	Shultz	
		US- 2,171,217	08/1939	Kreidel	
		US- 2,179,127	11/1939	Lauer	
		US- 2,182,811	12/1939	Kocher	
		US- 2,437,632	03/1948	Wolfram	
		US- 2,506,838	5/1950	Leonard	
		US- 2,251,717	08/1941	Parker	
		US- 2,330,841	10/1943	Parker	
		US- 2,344,032	03/1944	Eden	
		US- 5,183,322	02/1993	Haruch	
		US- 2,463,707	08/1949	Matousek	
		US- 2,484,815	10/1949	Crawford	
		US- 2,579,529	12/1951	Woodling	
		US- 2,641,487	06/1953	LaMarre	
		US- 2,687,315	08/1954	Courtot	
		US- 2,701,149	02/1955	Kreidel et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
JH		TW ROC 35532	02/1981	James Neill		
		DE 2735477	02/1978	Sundholm		
		DE 4041679	06/1992	Voss		
		DE 4211498	10/1993	EM-Technik		
		DE 4219722	12/1993	Lehmann		
		DE 4238877	05/1994	Lehmann		

Examiner
SignatureDate
Considered

9-23-05

*EXAMINER: Initia. if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number	10/605,348
Filing Date	September 24, 2003
First Named Inventor	Peter C. Williams
Art Unit	3679
Examiner Name	Not yet assigned
Attorney Docket Number	22188/06726

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	<i>J. M. L.</i>	Date Considered	9-23-05
-----------------------	-----------------	--------------------	---------

*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/605,348
Filing Date	September 24, 2003
First Named Inventor	Williams et al.
Art Unit	3679
Examiner Name	James M. Hewitt
Attorney Docket Number	22188/06726

Sheet 2 of 7**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JH		US- 5,351,998	10/1994	Behrens et al.	
		US- 2,744,651	05/1956	Bredstschneider	
		US- 2,749,152	06/1956	Courtot	
		US- 3,075,793	01/1963	Lennon et al.	
		US- 3,103,373	09/1963	Lennon et al.	
		US- 3,120,696	02/1964	Lubkin	
		US- 5,482,232	01/1996	Ohmi et al.	
		US- 5,882,050	03/1999	Williams et al.	
		US- 3,250,550	05/1966	Lyon	
		US- 3,275,350	09/1966	Kody	
		US- 3,290,069	12/1966	Davis	
		US- 5,934,714	08/1999	Sugiyama et al.	
		US- 3,336,058	08/1967	Franck	
		US- 6,073,976	06/2000	Schmidt et al.	
		US- 3,445,128	05/1969	Teeters	
		US- 3,484,123	12/1969	van der Velden	
		US- 3,584,900	06/1971	Lennon et al.	
		US- 6,131,963	10/2000	Williams et al.	
		US- 3,707,302	12/1972	Hiszpanski	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ² Number ⁴ Kind Code ⁵ (if known)				
JH		DE 4304534	08/1994	Lehmann		
		EP 071678	02/1983	Deere & Co.		
		EP 223185	05/1987	Norbert		
		EP 484091	05/1992	Crawford		
		EP 489289	06/1992	Parker		
		EP 528079	02/1993	Aerogroup		

Examiner Signature	<i>J. M. L.</i>	Date Considered	9-23-05
--------------------	-----------------	-----------------	---------

*EXAMINER: Initials of reference considered, whether or not citation is in conformance with MPEP 509. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.99. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 7**Complete if Known**

Application Number	10/605,348
Filing Date	September 24, 2003
First Named Inventor	Williams et al.
Art Unit	3679
Examiner Name	James M. Hewitt
Attorney Docket Number	22188/06726

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JW		US- 3,736,008	05/1973	Crawford	
		US- 3,787,080	01/1974	Daniel	
		US- 6,345,845	02/2002	Johnston	
		US- 3,970,337	07/1976	Niemeyer	
		US- 4,005,824	02/1977	Becker et al.	
		US- 4,037,864	07/1977	Anderson et al.	
		US- 6,629,708	10/2003	Williams et al.	
		US- 4,230,349	10/1980	Normark	
		US- 4,235,461	11/1980	Normark	
		US- 4,361,283	11/1982	Hetherington et al.	
		US- 2004/0113429	06/2004	Williams et al.	
		US- 5,083,749	01/1992	Linderman et al.	
		US- 4,702,420	10/1987	Rath	
		US- 4,826,218	05/1989	Zahuranec	
		US- 4,915,427	04/1990	Zahuranec	
		US- 4,995,646	02/1991	Johnston et al.	
		US- 5,027,489	07/1991	Johnston	
		US- 5,074,599	12/1991	Wirbel et al.	
		US- 2,230,616	01/1941	Kriedel	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ³
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
JW		EP 1406039 .	04/2004	Swagelok		
↓		FR 757204 .	12/1933	Angelterre		
		FR 1092160 .	04/1955	Grande-Beaumont		
		FR 1170298 .	01/1959	St. Clair		
		GB 836002 .	06/1960	KAC Ltd.		
		GB 1130835 .	10/1968	Parker-Hannifin		

Examiner
Signature

J M. L.

Date
Considered

9-23-05

*EXAMINER: Initial: if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 7

Complete if Known

Application Number	10/605,348
Filing Date	September 24, 2003
First Named Inventor	Williams et al.
Art Unit	3679
Examiner Name	James M. Hewitt
Attorney Docket Number	22188/06726

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
JK		US- 2,287,889	06/1942	Ernest et al.	
		US- 2,405,822	08/1946	Franck	
		US- 2,437,632	03/1948	Wolfram	
		US- 2,460,635	02/1949	Herold	
		US- 2,463,707	03/1949	Matousek	
		US- 2,473,119	06/1949	Wolfram	
		US- 2,738,994	03/1956	Kreidel et al.	
		US- 3,120,969	02/1964	Schmohl	
		US- 3,174,778	03/1965	Gross	
		US- 3,215,457	11/1965	Teeters	
		US- 3,321,947	05/1967	Teeters	
		US- 3,433,508	03/1969	Teeters	
		US- 3,643,984	02/1972	Bucceri	
		US- 3,695,647	10/1972	Pugliese	
		US- 3,888,522	06/1975	Moreiras	
		US- 4,059,297	11/1977	Grahl et al.	
		US- 4,076,286	02/1978	Spontelli	
		US- 4,304,422	12/1982	Schwarz	
		US- 4,630,851	12/1986	Ogawa	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Re'evant Passages Or Re'evant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
JH		GB 2032555	05/1980	Olov Magnus		
↓		GB 2080900	02/1982	Waverly		
		JP 5079586	03/1993	Sekisui		
		JP 3079892	04/1991	Miura Yoshihisa		
		JP 3229090	10/1991	Riyouden Serv.		
		JP 7055073	03/1995	NTN Corp.		

Examiner
Signature

J. M. L.

Date
Considered

9-23-05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known

(Use as many sheets as necessary)

Sheet	5	of	7
-------	---	----	---

Application Number	10/605,348
Filing Date	September 24, 2003
First Named Inventor	Williams et al.
Art Unit	3679
Examiner Name	James M. Hewitt
Attorney Docket Number	22188/06726

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ^o
		Country Code ² Number ¹ Kind Code ³ (if known)	MM-DD-YYYY			
JH		JP 7110084	04/1995	Hitachi Metals		
		JP 8093975	04/1996	Hitachi Metals		
		JP 8145251	06/1996	Fuji Gokin		
		JP 8210567	08/1996	Hitachi Metals		
		NL 6710340	01/1968	Grasse		
JH		WO 89/09904	10/1989	Nords		

Examiner Signature	<i>L. M. L.</i>	Date Considered	9-23-05
-----------------------	-----------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Complete if Known

(Use as many sheets as necessary)

of 17

Application Number	10/605,348
Filing Date	September 24, 2003
First Named Inventor	Williams et al.
Art Unit	3679
Examiner Name	James M. Hewitt
Attorney Docket Number	22188/06726

[illegible]

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ² Number ³ Kind Code ⁴ (if known)			
JH		WO 93/25837	12/1993	Lehmann	
		WO 97/07356	02/1997	Frolich	
		WO 97/20163	06/1997	Minerdo	
		WO 98/32999	07/1998	Swagelok	
		WO 98/46925	10/1998	Swagelok	
		WO 01/73333	10/2001	Swagelok	

**Examiner
Signature**

Date _____

Date	Considered
11/1/78	11/1/78
11/2/78	11/2/78
11/3/78	11/3/78
11/4/78	11/4/78
11/5/78	11/5/78
11/6/78	11/6/78
11/7/78	11/7/78
11/8/78	11/8/78
11/9/78	11/9/78
11/10/78	11/10/78
11/11/78	11/11/78
11/12/78	11/12/78
11/13/78	11/13/78
11/14/78	11/14/78
11/15/78	11/15/78
11/16/78	11/16/78
11/17/78	11/17/78
11/18/78	11/18/78
11/19/78	11/19/78
11/20/78	11/20/78
11/21/78	11/21/78
11/22/78	11/22/78
11/23/78	11/23/78
11/24/78	11/24/78
11/25/78	11/25/78
11/26/78	11/26/78
11/27/78	11/27/78
11/28/78	11/28/78
11/29/78	11/29/78
11/30/78	11/30/78

9-23-05

<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not USPTO Patent Documents at www.uspto.gov or MPEP 501.04. * Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). * For the appropriate symbol as indicated on the document under WIPO Standard ST.16 if possible. * Applicant is to place a check mark here if English language Translation is attached.</p>	<p>Considered</p>	<p>9-23-05</p>
---	-------------------	----------------

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Complete if Known

(Use as many sheets as necessary)

Application Number	10/650,348
Filing Date	September 24, 2003
First Named Inventor	Williams et al.
Art Unit	3679
Examiner Name	James M. Hewitt
Attorney Docket Number	22188/06726

Examiner Signature	<i>[Signature]</i>	Date Considered	9-23-05
-----------------------	--------------------	--------------------	---------

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/650,348
Filing Date	September 24, 2003
First Named Inventor	Williams et al.
Art Unit	3679
Examiner Name	James M. Hewitt
Attorney Docket Number	22188/06726

Sheet	1	of	1
-------	---	----	---

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		
JH		GB 2049853	12/31/80	James Neill Hol	

Examiner Signature	<i>J. M. L.</i>	Date Considered	9-23-05
-----------------------	-----------------	--------------------	---------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.